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1 User perception in audio: A source and channel rate adaptation algorithm for AMR in VoIP using the Emodel

Johnny Matta, Christine Pépin, Khosrow Lashkari, Ravi Jain

Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video June 2003

We present a dynamic joint source and channel coding adaptation algorithm for the AMR speech codec based on the ITU-T Emodel. This model takes both delay and packet loss into consideration. We address the problem of finding the optimal choice of source and channel bit rates given QoS information about the wired and wireless IP network and subject to constraints on maximum packet loss, maximum delay and maximum allowed transmission rate. Our results show that an adaptation is necessary to presery ...

2 Uplink CDMA systems with diverse QoS guarantees for heterogeneous traffic

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Sunghyun Choi, Kang G. Shin

Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking September 1997

3 A trace-based evaluation of adaptive error correction for a wireless local area network

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David A. Eckhardt, Peter Steenkiste

Mobile Networks and Applications December 1999

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Wireless transmissions are highly susceptible to noise and interference. As a result, the error characteristics of a wireless link may vary widely depending on environmental factors such as location of the communicating systems and activity of competing radiation sources, making error control a difficult task. In this paper we evaluate error control strategies for a wireless LAN. Based on low-level packet traces of WaveLAN, we first show that forward error correction (FEC) is effective in r ...





Advanced Search: INSPEC - 1969 to date (INZZ)

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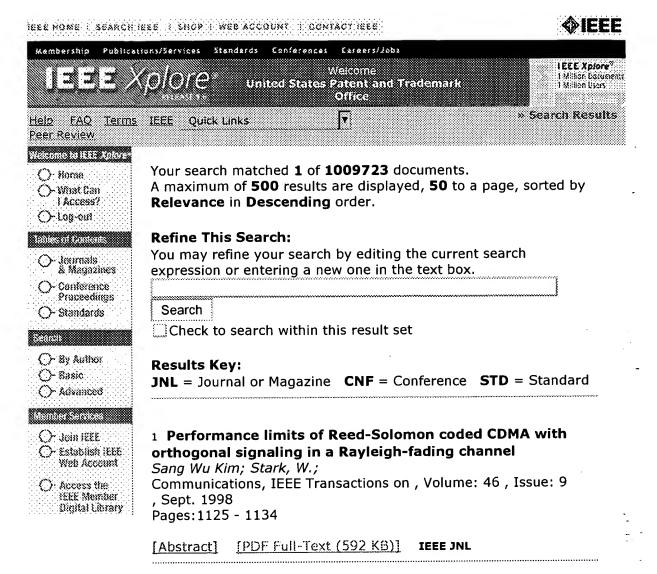
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